

SMORODINTSEV, A.A.; KLYATCHKO, N.S.

Live anti-mumps vaccine. I. Results of tests of the immunogenic properties of live vaccine when administered intradermally to susceptible children. Acta virol. Engl. Ed., Praha 2 no.3:137-144 July-Sept 58.

1. Pasteur Institute of Epidemiology, Microbiology and Hygiene, Leningrad.
(MUMPS, immunology
live vaccine, immunogenic properties after intradermal
admin. to child)

KLYATCHKO, N.S.; SMORODINTSEV, A.A.

Live anti-mumps vaccine. II. Epidemiological effectiveness of the immunization of children with a single intradermal injection of live anti-mumps vaccine. Acta virol. Engl. Ed., Praha 2 no.3:145-151 July-Sept 58.

1. Pasteur Institute of Epidemiology, Microbiology and Hygiene, Leningrad.
(MUMPS, immunology
live vaccine, epidemiol. effectiveness of single intra-
dermal inject. in child.)

SMORODINTSEV, A.A.; KLYACHKO, N.S.

Results and urgent problems of the study of a live attenuated
vaccine against mumps. Trudy Len. inst. epid. i mikrobiol. 16:
5-13 '58. (MIRA 16:8)

(MUMPS---PREVENTIVE INOCULATION)

SMORODINTSEV, A.A.; SHIKINA, Ye.S.; KOZELETSKAYA, M.N.; TIMIROVA, L.A.;
BELOV, G.S.

Results of commercial preparation of a live antimumps vaccine.
Trudy Len. inst. epid. i mikrobiol. 16:116-122 '58. (MIRA 16:8)

1. Iz virusologicheskoy laboratorii (zav. - chlen-korrespondent
AMN SSSR prof. A.A. Smorodintsev) Instituta epidemiologii,
mikrobiologii i gigiyeny imeni Pastera i laboratorii grippa
(zav. - Yu. K. Petrov) Leningradskogo instituta vaktsin i
syvorotok.

(MUMPS--PREVENTIVE INOCULATION)

*—

SMORODINTSEV, A.A., prof.

Vaccinations against poliomyelitis. Zdorov'e 4 no.9:9-10 S '58
(MIRA 11:10)

1. Chlen-korrespondent AMN SSSR.
(POLIOMYELITIS)

SMORODINTSEV, A.A.

Results and problems in the specific prevention and treatment of
influenza. Vest.AMN SSSR 13: no.3:20-30. '58. (MIRA 11:4)

1. Otdel virusologii Instituta eksperimental'noy meditsiny AMN SSSR.
Chlen-korrespondent AMN SSSR.

(INFLUENZA
prev. & ther. (Rus)

SMORODINTSEV, A.A., prof. (Moskva)

Properties of influenza virus. Med.sestra 17 no.2:8-11 F '58.
(MIRA 11:3)

1. Chlen-korrespondent AN SSSR
(INFLUENZA VIRUSES)

KHARAUZOV, N.A., prof., glavnyy red.; MIKHAYLOV, V.P., prof., zamestitel' glavnogo red.; BIRYUKOV, D.A., prof., otv.red.; AVETIKYAN, B.G., doktor biol.nauk, red.; ANICHKOV, N.N., akademik, red.; ANICHKOV, S.V., prof., red.; ARBUZOV, S.Ya., prof., red.; VESELKIN, P.N., prof., red.; VOYNO-YASENETSKIY, M.V., prof., red.; DANILOV, I.V., kand.biol.nauk, red.; ZHABOTINSKIY, Yu.M., prof., red.; ZHINKIN, L.N., prof., red.; IL'IN, V.S., red.; IOFFE, V.I., prof., red.; KARASIK, V.M., prof., red.; KUPALOV, P.S., prof., red.; MANINA, A.A., kand.med.nauk, red.; NEYFAKH, S.A., doktor biol.nauk, red.; RIKKL', A.V., prof., red.; SVETLOV, P.G., prof., red.; SMORODINTSEV, A.A., prof., red.; CHISTOVICH, G.N., doktor med.nauk, red.; BESEDIN, I.K., tekhn. red.

[Yearbook of the Institute of Experimental Medicine of the Academy of Medical Sciences of the U.S.S.R. for 1958] Ezhagodnik za 1958 god. (MIRA 14:1)
Leningrad, 1959. 538 p.

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut eksperimental'noy meditsiny. 2. Chleny-korrespondenty Akademii meditsinskikh nauk SSSR (for Biryukov, Veselkin, Il'in, Ioffe, Karasik, Svetlov, Smorodintsev). 3. Deystvitel'nyye chleny Akademii meditsinskikh nauk SSSR (for Anichkov, S.V., Kupalov).
(MEDICINE, EXPERIMENTAL)

POLYAK, R.I.; LUZYANINA, T.I.; SMORODINTSEV, A.A.

Biochemical investigations of influenza virus neutralizing protein fractions of sera from different animals. Acta virol. Engl. Ed., Praha 3(Supplem.):61-70 1959

1. Department of Virology, Institute of Experimental Medicine, U.S.S.R. Academy of Medical Sciences, Leningrad.
(INFLUENZA VIRUSES, imminol.)

DEICHMAN, G.I.; SMORODINTSEV, A.A.

Studies of the mechanism of multiplication of influenza virus.
Acta virol. Engl. Ed., Praha 3 no.3:129-138 July, 1959

1. Virus Laboratory, Scientific Research Institute of Vaccines and
Sera, and Department of Virology, Institute of Experimental Medicine,
U.S.S.R. Academy of Medical Sciences, Leningrad.
(INFLUENZA VIRUSES, culture)

SMORADINTSEV, A.A.

The problem of transmissible virus infections. A review of the 6th
International Congress of Tropical Medicine and Malaria in Lisbon.
Acta virol. Engl. Ed., Prana 3 no.3:185-192 July, 1959
(VIRUS DISEASES, transm)

SMORODINTSEV, A.A.; SELIVANOVA, A.A.

Results of immunizing volunteers with live attenuated adenovirus
vaccine types IV, V and VII; preliminary report. Vop.virus. 4
no.6:648-652 N-D '59. (MIRA 13:3)

1. Otdel virusologii Instituta eksperimental'noy meditsiny AMN SSSR,
Leningrad.

(ADENOVIRUS INFECTIONS immunol.)
(VACCINATION)

EXCERPTA MEDICA Sec 4 Vol 12/11 Med. Micro. Nov 59

3788. ACTIVE IMMUNIZATION AGAINST MUMPS WITH A SINGLE INTRA-
DERMAL INJECTION OF LIVING VACCINE - Immunisation active contre
les oreillons à la suite d'une seule injection intra-dermique de vaccin vivant
- Smorodintsev A. A. and Klatchko N. S. Inst. Pasteur, Leningrad - REV. LYON. MED. 1959, 8/1 (63-70) Graphs 6

A live-attenuated mumps vaccine for a single intradermal application was prepared from 5 laboratory virus strains which had lost their pathogenic properties for man as a result of 17-40 passages in developing chick embryos. Immunization was carried out in 4,116 out of 9,863 children without history of mumps, aged 3-6 yr., in 157 kindergartens in Leningrad. Vaccination was highly effective. There was a 10-fold decrease incidence among the vaccinated children as compared with unvaccinated control children (423 cases of infection in the control group, 30 in the vaccinated group). The coefficient of effectiveness was constant in different kindergartens and at different periods after immunization. Occasional cases of mumps reported in vaccinated children had a mild course and no spread was observed in the control group of children in vaccinated communities. In 10 kindergartens in which the first infection occurred in a vaccinated infant, only one additional case of infection took place, whereas in half of 45 kindergartens into which the virus was introduced by a control infant, 2 to 36 additional infections were reported. The innocuousness of the live vaccine has been confirmed by a 2nd immunization experiment in 30,000 infants and young schoolchildren carried out by practical workers.

Smorodintsev, A. A.

Pub. Org. med. Science 1979, 20, 1051-1074
Pub. Med. Sci. Org.

**RESULTS OF A STUDY OF THE REACTOGENIC
AND IMMUNOGENIC PROPERTIES OF
LIVE ANTI-POLIOVIRAL VACCINE**

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E. F. DAVIDENKOVA, A. I. DROZDSHEVSKAYA
V. I. ILYENKO, N. E. GOREV
L. M. KURNOVA, T. E. KLUTCHAREVA

Department of Virology,
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Synopsis

The authors have studied the reactogenic and immunogenic properties of live poliovirus vaccine made on Langsdorf from 20,000 children of preschool (6 months to 3 years) and school age (4-14 years) who were vaccinated in 1974. The reactogenicity of the vaccine was studied in 100 children in two stages, a month and a year after vaccination, or in two stages, a month and a year after vaccination, or in two stages, a month and a year after vaccination. The immunogenicity of the vaccine was studied in 100 children in two stages, a month and a year after vaccination, or in two stages, a month and a year after vaccination. The reactogenicity of the vaccine was studied in 100 children in two stages, a month and a year after vaccination, or in two stages, a month and a year after vaccination. The immunogenicity of the vaccine was studied in 100 children in two stages, a month and a year after vaccination, or in two stages, a month and a year after vaccination.

Bulletin of the World Health Organization, Vol. 20, No. 6, 1979

SMORODINTSEV, A. A.

"Experiences in Live Polio Vaccination in the USSR

report to be submitted for the Sixth Intl. Congress of Microbiological
Standardization, Wiesbaden, West Germany, 5-10 Sep 60

Head, Virology Dept., Inst. Exptl. Med. Acad. Med. Sci. Leningrad.

SMORODINTSEV, A. A., ILYENKO, V. I., Leningrad:

"Problems of vaccination against tick-borne encephalitis. (Introductory lecture.)"

report submitted for the Symposium on the Biology of Viruses of Tick Borne Encephalitis Complex, Smolenice Czechoslovakia, 11-14 Oct 60.

Institute of Experimental Medicine, U.S.S.R. Academy of Medical Sciences, Leningrad,
U.S.S.R.

SMORODINTSEV, A.A., prof., red.; BESEDIN, I.K., tekhn.red.

[Live vaccine against poliomyelitis; collection of articles from the Department of Virology] Zhivaia vaktsina protiv poliomiellita; sbornik rabot otdela virusologii. Ped red. A.A. Smorodintseva. Leningrad, 1960. 298 p.

(MIRA 14:7)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut eksperimental'noy meditsiny. 2. Otdel virusologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.
(POLIOMYELITIS)

PHASE I BOOK EXPLOITATION

SOV/5435

Kiselev, P. M., Professor, G. A. Gusterin, and A. I. Strashinin, Eds.

Voprosy radiobiologii. t. III: Sbornik trudov, posvyashchenny 60-letiyu so dnya rozhdeniya Professora M. N. Pobedinskogo (Problems in Radiation Biology. v. 3: A Collection of Works Dedicated to the Sixtieth Birthday of Professor M[ikhail] N[ikolayevich] Pobedinskiy [Doctor of Medicine]) Leningrad. Tsentr. n-issl. in-t med. radiologii M-va zdravookhraneniya SSSR, 1960. 422 p. 1,500 copies printed.

Tech. Ed.: P. S. Pelesbuk.

PURPOSE: This collection of articles is intended for radiobiologists.

COVERAGE: The book contains 49 articles dealing with pathogenesis, prophylaxis, and therapy of radiation diseases. Individual articles describe investigations of the biological effects of radiation carried out by workers of the Central Scientific Research Institute for Medical Radiology of the Ministry of Public Health, USSR. [Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii Ministerstva zdravookhraneniya SSSR] during 1958-59. The following

Card 1/10

Problems in Radiation Biology (Cont.)

507/5435

topics are covered: various aspects of primary effects of radiation; the course of some metabolic processes in animals subjected to ionizing radiation; reactions in irradiated organisms; morphologic changes in radiation disease; and reparation and regeneration of tissues injured by irradiation. Some articles give attention to the effectiveness of experimental medical treatments. No personalities are mentioned. References accompany almost all of the articles.

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Card 6/10	

LUZYANINA, T.I.; SALMINEN, A.L.; SMORODINTSEV, A.A.

Peculiarities of the interaction of thermostable inhibitors from
from normal sera with type A2 influenza viruses of the 1957 pandemic.
Acta virol. 4 no.3:137-145 My '60.

1. Department of Virology, Institute of Experimental Medicine, U.S.S.R.
Academy of Medical Sciences, Leningrad.
(INFLUENZA VIRUSES, immunology)

SMORODINTSEV, A.A.; BOICHUK, L.M.; SHIKINA, E.S.; BATANOVA, T.B.;
BYSTRYAKOVA, L.V.; PERADZE, T.V.

Clinical and immunological response to live tissue culture vaccine
against measles. Acta virol. Engl. Ed. Praha 4 no. 4: 201-204 J1'60.

1. Virological Laboratory, The Pasteur Institute of Epidemiology,
Microbiology and Hygiene, Leningrad; The Leningrad Scientific
Research Institute of Pediatrics; and the Children's Infections
Clinic of the Medical Pediatric Institute, Leningrad, U.S.S.R.
(MEASLES immunol)

SMORODINTSEV, A.A.

Fifth Pugwash conference of scientists against biological and
chemical warfare. Vest. AMN SSSR 15 no. 10:60-66 '60. (MIRA 14:4)

(BIOLOGICAL WARFARE) (CHEMICAL WARFARE)

SMORODINTSEV, A.A.; DROBYSHEVSKAYA, A.I.; BULICHEV, N.P.; VASIL'YEV, K.G.;
VOTYAKOV, V.I.; GROYSMAN, G.M.; ZHILOVA, G.P.; IL'YENKO, V.I.;
KANTOROVICH, R.A.; KURNOSOVA, L.M.; CHALKINA, O.M.

Material on the immunological and epidemiological effectiveness
of live poliomyelitis vaccine. Vest. AMN SSSR 15 no.6:45-58 '60.
(MIRA 14:4)

1. Otdel virusologii Instituta eksperimental'noy meditsiny AMN SSSR.
(POLIOMYELITIS)

1940, 23, 05-23
 Dry, mod. Sunny
 W. H. H. H. Dry

Immunological and Epidemiological Effectiveness of Live Poliomyelitis Vaccine in the USSR*

¹A. A. SMORODINTSEV, A. I. DRODYNSKIY, A. N. P. BULYCHEV,
O. M. CHALKINA, O. M. GELSMAN, V. I. IL'INSKIY, R. A. KANTUROV, K. I.
L. M. KLENOVA, K. O. VASILYEV, V. I. VOYAKOV, A. G. P. ZHILOVA

In 1990, instead of 1,700 rhyb, children up to 14-18 years old on the Eastern Pacific region, Afghanistan and Russian Republics of the CISK were given live *trichostema* prepared from ultraviolet Sobon streams. The results show that the new group is highly effective and quite innocuous.

[illegible]

Bulletin of the World Health Organization, Vol. 23, No. 6, 1960

from the Virus Department, Inst. of Experimental Medicine, USSR Acad. Med. Sci.

SMORODINTSEV, Anatoliy Aleksandrovich; KOROVIN, Aleksandr Anatol'yevich;
FRIDMAN, E.A., red.; LEBEDEVA, Z.V., tekhn. red.

[Influenza]Gripp. Leningrad, Medgiz, 1961. 371 p.
(MIRA 15:12)
(INFLUENZA)

SMORODINTSEV, A.A.

"Respiratory infections due to haemadsorptive para-influenza viruses
in children of pre-school age in Leningrad."

Report submitted for the 1st Intl. Congress on Respiratory Diseases of
Virus and Rickettsial Origin, Prague, Czech. 23-27 May 1961.

SMORODINTSEV, A.A., CHALKINA, O.M., BUROV, S.A., ILYIN, N.A.

"Principal conditions of raising the immunologic and epidemiologic effectiveness of live anti-influenza vaccine.

Report submitted for the 1st Intl. Congress on Respiratory Tract Diseases of Virus and Rickettsial Origin. Prague, Czech. 23-27 May, 1961.

[illegible]

"The Nature and Properties of Thermolabile Virus-N Neutralizing Normal Serum from Various Animals."

Report presented at the 1st Int'l. Black Inter Congress,
1968, 1-16 Aug 1968.

SMORODINTSEV, A.A.; LUZYANINA, T. Ya.; POLYAK, R.Ya.

Virus-neutralizing activity, the nature and the properties of
thermolabile substances of normal serums of different animals.
Nauch. inform. Otd. nauch. med. inform. AMN SSSR no.1:19-20
'61 (MIRA 16:11)

1. Institut eksperimental'noy meditsiny (direktor - chlen
korrespondent AMN SSSR D.A.Biryukov) AMN SSSR, Leningrad.

*

POLYAK, R.J.; SMORODINTSEV, A.A.

Electrophoretic investigations on thermostable inhibitors
of Type A2 influenza virus in normal animal sera. Acta virol.
Engl.Ed.Praha 5 no.1:1-3 Ja '61.

1. Dept. of Virology, Institute of Experimental Medicine, U.S.S.R.
Academy of Medical Sciences, Leningrad.
(INFLUENZA VIRUSES immunol)
(BLOOD PROTEINS chem)

SMORODINTSEV, A. A.; CHALKINA, O. M.; BUROV, S. A.; ILYIN, N. A.

Evaluation of the epidemiological effectiveness of live influenza vaccine during the type A₂ and B epidemics of 1959. J. hyg. epidem., Praha 5 no.1:60-68 '61.

1. Department of Virology, Institute of Experimental Medicine of the Academy of Medical Sciences of the U.S.S.R., Leningrad.

(INFLUENZA immunol)

POLYAK, R. Ya.; YABROV, A. A.; SMORODINTSEV, A. A.

Experimental data on the chemical nature of a nonspecific thermolabile component of normal sera which enhances the activity of influenza virus antisera. Acta virol. Engl. Ed. Praha 5 no. 4: 261 J1 '61.

1. Department of Virology, Institute of Experimental Medicine, U.S.S.R. Academy of Medical Sciences, Leningrad.

(INFLUENZA VIRUSES immunol) (IMMUNE SERUMS)

SMORODINTSEV, A.A.; BOYCHUK, L.M.; SHIKINA, Ye.S.; BYSTRYAKOVA, L.V.;
PERADZE, T.V.

State of immunity in children vaccinated with live vaccine against
measles. Vop. virus. 7 no. 1:59-67 Ja-F '61. (MIRA 14:4)

1. Virusologicheskaya laboratoriya Leningradskogo instituta
epidemiologii, mikrobiologii i gigiyeny imeni L. Pastera.
(MEASLES)

SMORODINTSEV, A.A.; BOYCHUK, L.M.; SHIKINA, Ye.S.; BYSTRYAKOVA, L.V.;
PERADZE, T.V.

State of immunity in children vaccinated with a live vaccine
against measles. Trudy Len.inst.epid.i mikrobiol. 22:7-20
'61. (MIRA 16:2)

1. Virusologicheskaya laboratoriya Leningradskogo instituta
epidemiologii, mikrobiologii i gigiyeny imeni Pastera.
(MEASLES—PREVENTIVE INOCULATION) (IMMUNITY)

SMORODINTSEV, A.A.

Parainfluenza viruses; survey of literature. Trudy Len.inst.
epid.i mikrobiol. 22:157-165 '61. (MIRA 16:2)

1. Iz laboratorii grippa (zav. E.A. Fridman) Leningradskogo
instituta epidemiologii i mikrobiologii imeni Pastera.
(INFLUENZA—MICROBIOLOGY)

SMORODINTSEV, A. A.

"The Present and Future of Live Respiratory Vaccines,"

report to be submitted for the Conference on Newer Respiratory Disease Viruses,
NIH, Bethesda, Maryland, 2-5 Oct 1962

Dir., Dept of Virology, Inst. of Exptl. Med. Leningrad

SMORODINTSEV, A.A., prof. (Leningrad)

Hemorrhagic fever. Med.sestra no.6:20-25 Je '62. (MIRA 15:8)

1. Chlen-korrespondent AMN SSSR.
(HEMORRHAGIC FEVER)

SMORODINTSEV, A.A. (Leningrad); GOLUBEV, D.B. (Leningrad); SMORODINTSEV,
Al.A. (Leningrad)

Problem of the epidemiology and etiology of Botkin's disease.
Vrach.delo no.9: 11-18 S '62. (MIRA 15:8)

1. Otdel virusologii Instituta eksperimental'noy meditsiny AMN SSSR.
(HEPATITIS, INFECTIOUS)

YABROV, A.A.; SMORODINTSEV, A.A.

Basic properties of the nonspecific thermolabile stimulator of antibodies. Acta virol. Engl. Ed. Praha 6 no.5:377-388 S '62.

1. Dept. of Virology, Institute of Experimental Medicine, U.S.S.R.
Academy of Medical Sciences, Leningrad.
(INFLEUNZA immunol.) (ANTIBODIES)

SMORDINTSEV, A.A.
DROBYSHEVSKAYA, A.I.; FIGAREVSKY, V.E.; SMORDINTSEV, A.A.

Activity of phagocytic factors in experimental infection of white mice with mouse pneumonia and meningopneumonia viruses. Acta virol. Engl. Ed. Praha 6 no.5:458-470 S '62.

1. Dept. of Virology and Dept. of Morbid Pathology--Laboratory of Morphology of Infectious Diseases, Institute of Experimental Medicine, U.S.S.R. Academy of Medical Sciences, Leningrad.
(VIRUS DISEASES exper.) (PNEUMONIA exper.)

/ SMORODINTSEV, A.A. (Leningrad)

Fundamental results of the study of the live anti-influenza vaccine. Klin. med. 40 no.11:33-39 N'62. (MIRA 16:12)

1. Iz otdela virusologii Instituta eksperimental'noy meditsiny AMN SSSR i laboratorii virusologii Leningradskogo instituta epidemiologii i mikrobiologii imeni Pastera.

SMORODINTSEV, Anatoliy Aleksandrovich; KAZBINTSEV, Lev Ivanovich;
CHUDAKOV, Valentin Georgiyevich; GOL'SHTEYN, N.I., red.
[deceased]; SHNAYDER, B.Ye., red.; KHARASH, G.A., tekhn.red.

[Viral hemorrhagic fevers] Virusnye gemorragicheskie likho-
radki. Leningrad, Medgiz, 1963. 291 p. (MIRA 17:2)

SMORODINTSEV, A. A.

"Some Results and Perspectives of the Use of Live Measles Vaccine of
the Institute of Epidemiology and Microbiology."

report presented before the Scientific Group on Measles Vaccines Studies,
World Health Organization, Geneva, Switzerland, 15-20 Jul 1963

Pasteur Inst, Leningrad, USSR

SMORODINTSEV, A.A.; YABROV, A.A.

Intensity of the interaction of antibody and virus in the haemagglutination inhibition test in the presence of nonspecific thermolabile stimulator of antibodies. Acta virol. 7 no.2:138-151 Mr '63.

1. Dept. of Virology, Institute of Experimental Medicine, U.S.S.R.
Academy of Medical Sciences, Leningrad.

(HEMAGGLUTINATION INHIBITION TESTS) (INFLUENZA VIRUSES)
(IMMUNE SERUMS) (HEAT) (NEUTRALIZATION TESTS)

SMORODINTSEV, A.A.; YABROV, A.A.

The mechanism of enhanced activity of anti-influenza virus neutralizing antisera on their interaction with native serum from normal animals.
Acta virol. 7 no.3:193-200 My '63.

1. Dept. of Virology, Institute of Experimental Medicine, U.S.S.R.
Academy of Medical Sciences, Leningrad.

(IMMUNE SERUMS)	(INFLUENZA VIRUSES)
(NEUTRALIZATION TESTS)	(HEMAGGLUTINATION INHIBITION TESTS)

LUZYANINA, T.Ya.; SMORODINTSEV, A.A.; MIKUTSKAYA, B.A.

Immunogenic and reactogenic properties of live tissue culture
anti-mumps vaccine. Acta virol. (Praha)[Eng] 7 no.6:562 '63.

1. Dept. of Virology, Institute of Experimental Medicine,
U.S.S.R. Academy of Medical Sciences, Leningrad.
(MUMPS) (VACCINATION) (ANTIBODY FORMATION)

SMORODINTSEV, A.A.; BUROV, S.A.; DOKUCHAYEV, G.M.; MINCHEV, P.N.;
FILIPPOV, N.A.; CHAIKINA, O.M.

Influence of the number of vaccinations on the epidemiological
effectiveness of live influenza vaccine. Vop. virus. 8 no.3:
286-291 My-Je '63. (MIRA 16:10)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.
(INFLUENZA—PREVENTIVE INOCULATION)

SHORODINTSEV, A.A.; CHALKINA, O.M.

Results and prospects of the use of live vaccines against influenza and influenza-like infections. Vest. AMN SSSR 18 no.5:
81-87'63. (MIA 16:8)
(VACCINES) (INFLUENZA—PREVENTIVE INOCULATION)

BIRYUKOV, D.A., prof.; SMORODINTSEV, A.A., prof.; SELIVANOV, A.A.,
kand. med. nauk, starshiy nauchnyy sotrudnik; IL'IN, G.I., kand.
med. nauk; PIGAREVSKIY, V.Ye., doktor med. nauk; GOKHLERNER, G.,
vrach

Grippe. Nauka i zhizn' 30 no.4:72-78 Ap '63. (MIRA 16:7)

1. Direktor Instituta eksperimental'noy meditsiny AMN SSSR,
Leningrad, deystvitel'nyy chlen AMN SSSR (for Biryukov).
2. Otdel virusologii Instituta eksperimental'noy meditsiny
AMN SSSR, Leningrad (for Selivanov).
3. Otdel patologicheskoy
anatomii Instituta eksperimental'noy meditsiny AMN SSSR,
Leningrad (for Il'in).

(INFLUENZA RESEARCH)

SMORODINTSEV, A. A.; ALEKSANDROVA, G. A.; CHAIKOVA, G. U.; SERLITANCI, A. A.

"Experiences in the development of live vaccines against influenza and influenza-like respiratory infections."

paper present at Symp on Applied Virology, Boca Raton, Fla., 30 Nov-2 Dec 64.

SELIVANOV, A. A.; SMORODINTSEV, A. A.; MCROZENKO, M. A.; MIKITEKALA, E. A.; FLESHANOVA, E.A.

"Data on the study of reaction- and immunity- producing properties of attenuated strains of the adenovirus and parainfluenza group."

Part II of paper presented at Symp on Applied Virology, Boca Raton, Fla., 30 Nov-2 Dec 64.

Div of Virology, Inst of Experimental Medicine, AMS USSR, Leningrad.

SMORODINTSEV, A. A.; BOICHUK, L. M.; SHIKINA, Ye. S.; MERALOVA, V. N.; ERUS, L. Ia.
AMINOVA, M. G.; REVENOK, N. D.; SAFAROV, D. I.

"Experience in the USSR in the prevention of measles by use of live vaccine."

report presented at Symp on Applied Virology, Boca Raton, Fla., 30 Nov-2 Dec 64.

Pasteur Inst of Epidemiology and Microbiology, Leningrad.

SMORODINTSEV, A. A.

"Experiences concerning the use of live virus vaccines (influenza, measles, etc.)
in the Soviet Union."

report submitted for Symp on Applied Virology, Boca Raton, Fla., 30 Nov-2 Dec 64.

Chief, Dept of Virology, Inst of Experimental Medicine, AMS USSR

SELIVANOV, A.A.; PLESHANOVA, R.A.; SKRYABINA, E.A.; SMORODINTSEV, A.A.

Testing the effectiveness of live adenovirus vaccine. I. Reactogenic properties. Acta virol. (Praha) [Eng.] 8 no.3:263-270 My'64.

1. Department of Virology, Institute of Experimental Medicine, U.S.S.R. Academy of Medical Sciences, Leningrad.

SELIVANOV, A.A.; PLESHANOVA, R.A.; SMORODINTSEV, A.A.

Testing the effectiveness of live adenovirus vaccine. II.
Immunogenic properties. Acta virol. (Praha) [Eng.] 8 no.3:
271-276 My'64

1. Department of Virology, Institute of Experimental Medicine,
U.S.S.R. Academy of Medical Sciences, Leningrad.

EXANDROVA, G.I.; YAKOV, A.A.; BYRODINSEV, A.V.

Enhanced avidity of influenza antibodies after repeated contact of man and animals with A1 influenza virus. Acta virol. 8 no.5:385-391 5 '64.

1. Dept. of Virology, Institute of Experimental Medicine,
U.S.S.R. Academy of Medical Sciences, Leningrad.

GOLUBEV, D.B.; SMORODINTSEV, A.A., Jr.; LIFINA, N.V.; MESHALOVA, V.N.;
SIMANOVSKAYA, V.K.; BOKAREVA, V.N.

Changes in aldolase activity following infection with certain
viruses. Acta virol. 8 no.5:410-416 S '64.

1. Scientific Research Institute of Vaccines and Sera; :
Department of Virology, Institute of Experimental Medicine,
U.S.S.R. Academy of Medical Sciences; and the Pasteur
Institute of Microbiology, Epidemiology and Hygiene,
Leningrad.

LEBEN, A.A.; UBNV, N.B.; JMBR 1974, 1974

Study on the peculiarities of respiratory syncytial (RS) virus
reproduction based on indices of enzyme activity. *Vopr. virol.*
(Mosk.) [Eng.] 8 no.6:562 N 1974

1. Department of Virology, Institute of Experimental Medicine,
U.S.S.R. Academy of Medical Sciences, Leningrad.

LUZYANINA, T.Ya.; SMORODINTSEV, A.A.

Neutralization of mumps virus in chick embryo cell cultures.
Acta virol. (Praha) [Eng.] 9 no.2:160-164 Mar'65.

1. Department of Virology, Institute of Experimental Medicine,
U.S.S.R. Academy of Medical Sciences, Leningrad.

SMORCHENTSEV, A.A.

Basic nonspecific protective factors against virus infections
in a warm-blooded organism. Vop. virus. 9 no.5:587-597 SMO '64.
(MIRA 18:6)

1. Otdel virusologii Instituta eksperimental'noy meditsiny AMN
SSSR, Leningrad.

SNORODINSEV, A.A.; IZZADINI, T. Ya.; MUKHOMYAROVA, B.A.

Data on the efficiency of live mumps vaccine from chick embryo cell cultures. Acta virol. (Praha) [Eng] 9 no.3:240-247 My1965.

1. Department of Virology, Institute of Experimental Medicine, U.S.S.R., Academy of Medical Sciences, Leningrad.

SMORODINTSEV, A.A.; DORUCHAYEV, G.I.; MINICHEV, P.M.; FILIPPOV, N.A.;
CHALKINA, O.M.

Epidemiological effectiveness of live influenza vaccine during
A2 and B influenza outbreaks in 1962. Vop. virus. 10 no.4:476-
482 J1-Ag '65. (MIRA 12:8)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.

SMORODINTSEV, A.A.; DOKUCHAYEV, G.I.; MINICHEV, .N.; FILIPPOV', N.A.
CHALKINA, O.M.

Epidemiological effectiveness of live vaccine against influenza
during the outbreak of influenza A2 and B in 1962. Zhur.
mikrobiol., epid. i immun. 42 no.10:54-61 O '65. (MIRA 18:11)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.
Submitted June 10, 1964.

SMORODINTSEV, Aleksandr

Morphological studies on reactive processes in viral influenza in the respiratory tract of white mice exposed to the effect of X rays [with summary in English]. Vop.virus. 2 no.5:290-296 S-O '57.
(MIRA 10:12)

1. Tsentral'nyy nauchno-issledovatel'skiy rentgeno-radiologicheskiy institut i Institut eksperimental'noy meditsiny AMN SSSR, Leningrad
(INFLUENZA, experimental,
eff. of x-rays on resp. morphol. in white mice (Rus))
(ROENTGEN RAYS, effects,
on influenzal resp. tract changes in white mice (Rus))

Cause of influenza
SMORODINTSEV, Al. A., Cand Med Sci --(diss) "~~Europe~~
infection ~~the cause of influenza~~
contagion and anti-~~influenza~~ immunity in radiation sickness."

Len, 1957. 13 pp (Central Sci Res Roentgeno-radiological
Inst, Min of Health USSR).

(KL, 12-58, 103)

-99-

EXCERPTA MEDICA Sec 4 Vol 12/3 Med. Micro. Mar 59

1019. THE EFFECT OF X-RAY IRRADIATION ON THE COURSE OF EXPERIMENTAL INFLUENZA INFECTION IN WHITE MICE AND RATS - Smorodintseff Jr A. A. Bacteriol. Lab., Centr. Res. Inst. of Roentgenol. and Radiol., Leningrad - ACTA VIROL. (Bratislava) 1957, 1/3-4 (145-155) Graphs 5 Tables 1 Illus. 2

Susceptibility to infection with influenza virus increases considerably in white mice and rats irradiated with X-rays. Mortality of infected animals and virus proliferation in the lungs depend on the dose of radiation and the interval between irradiation and infection. Preliminary total body irradiation results in prolonged survival of virus in the lungs. Preliminary irradiation and subsequent infection with slightly pathogenic strains result in macroscopically visible pneumonia. This is not found in non-irradiated animals. Thirty-two to 48 hr. after infection of white mice with type A₁ influenza virus of low pathogenicity, a large number of basophil inclusion bodies is found in the protoplasm of epithelial cells of the trachea and bronchi. Later the same inclusions are found in the epithelium of the small bronchi. In addition acidophil bodies are formed around these basophil inclusion bodies. Degeneration and destruction of epithelial cells in the trachea and large bronchi appear in irradiated mice. In small bronchi this process leads to separation of whole epithelial layers. In non-irradiated animals such severe changes are never found. A similar picture is only observed in non-irradiated mice infected with strains of high pathogenicity. Preliminary irradiation depresses formation of antibodies. The degree of suppression is proportional to the dose of irradiation.

SMORODINTSEV, A.A. (Leningrad); GOLUSEV, D.B. (Leningrad); SMORODINTSEV,
Al.A. (Leningrad)

Problem of the epidemiology and etiology of Botkin's disease.
Vrach.delo no.9:11-18 S '62. (MIRA 15:8)

1. Otdel virusologii Instituta eksperimental'noy meditsiny AMN SSSR.
(HEPATITIS, INFECTIOUS)

ILYENKO, V.I.; MIRTOYEVA, N.; DANIYAROV, G.; AMIROVA, M.G.; DAVIDENKO, Z.B.;
SMORODINTSEV, A.A.

Experiences with serological research on transmissible infections
in the southern republics of the U.S.S.R. J. hyg. epidem. (Praha)
8 no.2:229-236 '64.

1. Institute of Experimental Medicine, Academy of Medical Sciences
of the U.S.S.R., Virology Department; Institute of Epidemiology,
Microbiology and Hygiene, Baku; Institute of Epidemiology and
Microbiology, Frunze; Institute of Epidemiology and Microbiology,
Tashkent.

ALEKSANDROVA, G.I.; MIKUTSKAYA, B.A.; PLESHANOVA, R.A.; PALOVA, T.G.;
SMORODINTSEV, A.A.

Reactogenic and immunogenic properties and epidemiologic effectiveness of extra attenuated vaccinal strains of the influenza virus (observations in children of preschool age). Vop. virus. (MIRA 18:5)
10 no.1:67-73 Ja-F '65.

1. Otdel virusologii Instituta eksperimental'noy meditsiny AMN
SSSR, Leningrad.

SMORODINSKOV, I.S.; RUBAKHA, A.S. (N.Tagil)

Result of the treatment of lumbosacral radiculitis with epidural
novocaine. Zhur. nevr. i psikh. 54 no.8:642-643 Ag '54. (MLRA 7:9)

(PROCAINE, therapeutic use,
radiculitis, lumbosacral, epidural admin.)

(NERVES, SPINAL, diseases,
radiculitis, lumbosacral, ther., epidural procaine)

SMORODINTSEVA, G.I.

Effects of cysteamine on chemoreception of the carotid ganglion [with summary in English]. Med.rad. 3 no.3:15-21 My-Je '58 (MIRA 11:7)

1. Iz otdela eksperimental'noy terapii Tsentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta Ministerstva zdoravookhraneniya SSSR.

(MERCAPTOETHYLAMINES, eff.

2-aminoethanethiol, on chemoreception of carotid ganglion in x-irradiated animals (Rus))

(ROENTGEN RAYS, eff.

on chemoreception of carotid ganglion after 2-aminoethanethiol admin. in animals (Rus))

(CAROTID BODY, physiology

2-aminoethanethiol on chemoreception in x-irradiated animals (Rus))

SMORODINTSEVA, G.I.

Effect of cysteinamine on respiration and blood pressure;
mechanism of the protective action of cysteinamine. Med.
rad. 4 no.7:40-45 J1 '59. (MIRA 12:9)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo rentgeno-
radiologicheskogo instituta i otdela farmakologii (zav. -
deystvitel'nyy chlen AN SSSR prof.S.V.Anichkov) Instituta
eksperimental'noy meditsiny.

(MERCAPTOETHYLAMINES pharmacol.)

(BLOOD PRESSURE pharmacol.)

(RADIATION PROTECTION)

(RESPIRATION pharmacol.)

CHERNOMIR, G. I. "Pharmacological Analysis of the Protective Action of
beta-mercaptoethylamine (Mercurine) During Radiation Sickness." Mercurine is a
strong cholinergic, which weakens its protective action during radiation sickness.
It is more effective when used in combination with other preparations.

candidate dissertation listed in Meditsinskaya radiologiya, no. 7, 1964. The
article did not state specifically what degree was awarded. The annotated
titles deal with studies on radiation physiology, radiation biochemistry,
combined trauma and the influence of radiation on regenerative processes,
radiation microbiology and immunology, and radiation pharmacology.

PERMINOV, A.Ye.; ROMANOV, A.A.; MIZEROV, A.V.; TSYBA, M.M.;
ZHELUDKOV, A.S.; NEKRASOV, V.V.; PRASOLOV, M.I.;
BARTENEV, S.N.; BELYAYEVA, T.P.; ZHERDEV, P.A.;
KOYVINEN, T.M.; SMORODOV, P.V., redaktor; POD*YEL'SKAYA,
K.M., tekhn. red.

[Manual for a Karelian field crop grower] Spravochnik
karel'skogo polevoda. Petrozavodsk, Karel'skoe knizhnoe
izd-vo, 1962. 435 p. (MIRA 17:3)

GOLD, O. [Gold, Otto]; SMORODSKIY, P.V. [translator]; SUSHCHENKO, A.A.,
inzh., red.; DMITRIYEV, L.N., red.izd-va; PROZOROVSKAYA, V.L.,
tekhn.red.; MADEINSKAYA, A.A., tekhn.red.

[Bearing lignite coal fields] Vskrytie burougol'nykh kar'ernykh
polsi. Perevod s nemetskogo P.V.Smorodskogo. Pod red. A.A.
Sushchenko. Moskva, Ugletekhizdat, 1957. 310 p. (MIRA 11:4)
(Strip mining) (Lignite)

PINES, M.Ye.; SMORODSKIY, P.V.; KITAYSKIY, Ye.V., red.; MURONETS, I.I.,
red.; BRUDNO, K.F., tekhn. red.

[German-Russian mining dictionary] Nemetsko-russkii gornyi slovar'.
Pod red.E.V.Kitaiskogo. Moskva, Glav.red.inostr.nauchno-tekhn. slo-
varei Fizmatgiza, 1961. 428 p. (MIRA 14:12)
(German language--Dictionaries--Russian)
(Mining engineering--Dictionaries)

BIR, Sh.S.; KAPLAN, B.Ya.; KULESHA, V.S.; MARKEVICH, V.G.;
CHRENSHTEYN, E.I.; RAPPOPORT, T.L.; SMORODSKIY, P.V.;
SOKOLOV, D.Yu.; TURETSKAYA, S.S.; FLESHNER, I.K.;
ABLOVA, A.A., red.; SMUL'SKAYA, T.K., red.1-leksikograf;
LICHACHEVA, L.V., tekhn. red.

[Polish-Russian polytechnical dictionary] Pol'sko-
russkii politekhnicheskii slovar'. Moskva, Fizmatgiz,
1963. 515 p. (MIRA 16:11)
(Polish language--Dictionaries--Russian)
(Technology--Dictionaries)

KUPRIN, A.I., kand.tekhn.nauk; ZHABIN, G.I., inzh.; SMORODSKIY, V.V., inzh.

Hydraulic conveying in shield method of mining. Izv.vys.ucheb.zav.;
gor.zhur. 6 no.11:16-21 '63. (MIRA 17:4)

1. Sibirskiy metallurgicheskiy institut imeni Ordzhonikidze (for
Kuprin, Zhabin). 2. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz.
Rekomendovana kafedroy gidrodobychi Sibirskogo metallurgicheskogo
instituta.

KUPCHIN, Aleksandr Ivanovich, kanz. tekhn. nauk; Polnomochi
uchastnye: SENGODTSKIY, V.V., inzh.; GIKRYANNYY, Yu.V.,
inzh.; FIGUREV, G.B., inzh.; TRAMIS, V.V., kand.
tekhn. nauk, retsenzent;

[Pressureless hydraulic conveying] Beznapornyi gidrotransport. Moskva, Izd-vo "Nedra," 1964. 159 p. (MIRA 17:6)

KHOLIN, A.I., kandid. tekhn. nauk, SPESOTSIIY, M.V., inzh. GUMYANNY,
Yu.V., inzh.

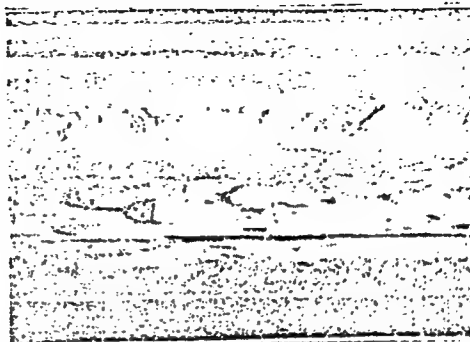
Electromagnetic devices for determining the coefficient of
static friction. Izv. vys. ucheb. zav. gor. zhur. 7 no. 4:138-141
'64. (MIRA 17:0)

1. Dnepropetrovskiy metallurgicheskiy zavod-imya A.
I. Arseniyeva, rekomendovana katedroy energetiki.

L 00000-07

ACC NR: AP6020935

Fig. 1. Characteristic defects on the inner surface of steel-copper pipes of 57 x 6.0 mm cross section.



Orig. art. has: 2 graphs.

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 004

awm

Card 2/2

SMOROSHKO, I.D.; LEVADNAYA, L.P.

Stuffingboxes of centrifugal pumps for pumping slurries. Sakh.
prom. 31 no.3:44-45 Mr '57. (MIRA 10:4)

1. Kupyanskiy sakharney zavod.
(Centrifugal pumps)
(Sugar industry--Equipment and supplies)

SUBJECT USSR/MATHEMATICS/Theory of functions CARD 1/3 PG - 645
 AUTHOR SMOROVICH V.A.
 TITLE On some classes of functions being analytic in the circular ring.
 PERIODICAL Mat.Sbornik, n. Ser. 40, 225-238 (1956)
 reviewed 3/1957

Let $K_z(r;R)$ and $K_z[r;R]$ ($0 < r < |z| < R$) be the circular rings $0 < r < |z| < R$ and $0 < r \leq |z| \leq R$. To the function class $B(r;R)$ there belong all functions being unique, analytic and regular in $K_z(r;R)$ which satisfy the condition

$$\int_{-\pi}^{+\pi} |\operatorname{Re} f(\xi e^{i\varphi})| d\varphi < L(f) \quad (r < \xi < R),$$

where $L(f)$ is a positive constant depending on $f(z)$. Let a function belong to the class $B_n(q;1)$ if it is unique and meromorphic in $K_z(q;1)$, in this ring possesses a finite number of poles of at most n -th order and if it belongs to the classes $B(q;q+\delta)$ and $B(1-\delta;1)$ for sufficiently small $\delta > 0$. Theorem: Necessary and sufficient that $f(z)$ belongs to the class $B_n(q;1)$ is the representability of $f(z)$ in the form

$$f(z) = \sum_{k=1}^n \omega(z; a_k, c_k) + \frac{1}{2\pi} \int_{-\pi}^{+\pi} F(z e^{-i\varphi}) d\mu_1(\varphi) + \frac{1}{2\pi} \int_{-\pi}^{+\pi} F\left(\frac{q}{z} e^{i\varphi}\right) d\mu_2(\varphi) - \alpha + i\beta,$$

Mat.Sbornik,n.Ser. 40, 225-238 (1956)

CARD 3/3

PG - 645

7) $M_j(\varphi)$ ($j=1,2$) is unique, real, of bounded variation on $[-\pi, +\pi]$ and
normalizes $M(\pi+0) = M(\pi) = 0$.

Furthermore several other similar function classes are introduced and
necessary and sufficient conditions that a function belongs to these classes
are given.

INSTITUTION: Kiev.

SMORCZKA, Hanna

Larval stages of *Cyzicus tetracerus* Kryn. (Phyllopoda-Conchostrata). *Nauki matemat. przyrod. Lodz* no.7:81-93 '60.

1. Katedra Zoologii Systematycznej, Uniwersytet, Lodz.

ACCESSION NR: AP4039006

S/0130/64/000/005/0029/0031

AUTHOR: Smorshchok, V. S.

TITLE: Production of seamless bimetallic pipes

SOURCE: Metallurg, no. 5, 1964, 29-31

TOPIC TAGS: pipe production, seamless pipe, bimetallic pipe, hot rolling, pressing, drawing, cold rolling, centrifugal pouring

ABSTRACT: This review of the seamless pipe production methods was compiled in order to choose the best technique for the production of bimetallic pipes. The use of such pipes is increasing because they require much smaller quantities of rare and costly metals and alloys. A stable diffusional bond between two metals is usually produced by simultaneous hot pressing, rolling, and drawing of both layers in a continuous rolling mill. Normally a plant couples such a mill to various cold rolling and drawing machines. The product consists of a thick hot-rolled or pressed pipe and of a thin shell which serves as a plating material. If the inside of the pipe is to be plated, the shell is inserted into the pipe and flared in a drawing mill. The outside plating requires a simultaneous drawing of both elements.

Card 1/2

' ACCESSION NR: AP4039006

Theoretically, this procedure is based on the layered body deformation theory developed in the UkrNTTI. Investigations revealed the following basic conditions to be required for optimal results. After cleaning, the contacting surfaces should be pressed together immediately to prevent possible pollution. In order to avoid oxidation of the contacting surfaces the two-layer fagot should be heated to the welding temperature during deformation. The process of hot deformation should be carried out in such a way as to secure high specific pressures at the contact surfaces, a uniform deformation in the longitudinal and transverse directions, and a minimum drop in temperature. Superior results in production of seamless bimetallic pipes were obtained by centrifugal casting with subsequent rolling or pressing. This procedure did not require the operations associated with the cleaning of the contact surfaces. The author concludes that the centrifugal casting method requires and deserves further investigation.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy trubnyy institut (Ukrainian Scientific Research Institute of Pipes)

SUBMITTED: 00

DATE AQ: 09Jun64

ENCL: 00

SUB CODE: MM
Card 2/2

NO REF SOV: 000

OTHER: 000

SMORSHCHOK, V.S.

Production of seamless bimetal pipe. Metallurg 9 no.5:29-31
My '64. (MIRA 17:8)

1. Ukrainskiy nauchno-issledovatel'skiy trubnyy institut.

ACC NR: AP6018221 (1)

SOURCE CODE: UR/0383/66/000/001/0041/0043

AUTHOR: Chepurko, M. I. (Candidate of technical sciences); Smorshchok, V. S.;
Buynovskiy, A. M.; Panyushkin, A. V.

48
47
E

ORG: none

TITLE: Extrusion of bimetallic steel-copper pipes

SOURCE: Metallurgicheskaya i gornorudnaya promyshlennost', no. 1, 1966, 41-43

TOPIC TAGS: pipe, metal extrusion, bimetal, metal cladding

ABSTRACT: Bimetallic pipes of No. 10 steel and M3S copper were extruded on a vertical 1500 T power press (container $\phi=150$ mm, die $\phi=74$ mm, punch $\phi=64$ mm, temperature 900 to 920C, graphite oil and 10% salt lubricant). The pipe sections were 4000 mm long, had an outside diameter of 73.5 mm and total wall thickness of 5 mm. Thickness of the inside copper layer ranged from 0.20--0.25 to 0.90 mm. The extrusion technique is described. Inspection of finished pipe indicated a relatively uniform distribution of copper cladding over the length of the pipe. Copper thickness below 0.90 mm resulted in substandard material. It is concluded that the technology described can be employed to manufacture steel pipe with inside copper cladding as a finished product or as a final billet. Orig. art. has: 3 figures and 2 tables.

UDC: 621.774.332

Card 1/2

40924-66
ACC NR: AP6018224

SUB CODE: 13,11/ SUBM DATE: none

Johnston, John, 1918-1980 13

Card 2/2 vmb

S/079/62/032/012/004/008
D424/D307

AUTHORS: Gershkovich, Zh., Duvalma, M., Meruyu, Ye., Imorz-
cvskaya, M., Vaynberg, M. and Korletyanu, Ye.

TITLE: Production of isoprene from dimethyldioxan. I. The
role of catalyst and support

PERIODICAL: Zhurnal obshchey khimii, v. 32, no. 12, 1962,
3987-3990

TEXT: In connection with work carried out at the authors' Institute in Bucharest on the production of isoprene from isobutylene and formaldehyde via 4,4-dimethyl-1,3-dioxan (DM), the effect of the composition of the catalyst for the vapor-phase conversion of DM to isoprene on its selectivity, isomerizing effect, etc. has been studied. Standard conditions found to be optimal in preliminary experiments were used, namely: 270°C and a space velocity of feed of DM of 0.4 hr⁻¹. The highest activity was possessed by a catalyst consisting of acid calcium phosphate on a silica/5% alumina support, the nature of the support being important. With this cata- ✓

Card 1/2

Production of isoprene ...

S/079/62/032/012/004/003
D424/D307

lyst, the selectivity fell as the temperature was increased from 150 to 350°C but the maximum total conversion (~65%) was obtained at ~300°C, the selectivity then being of the order of 85%. By-products found (by gas chromatography) included isobutylene, 2-methylbut-2-ene, methyltetrahydropyran, 2-methylbutan-1-ol, isovaleraldehyde, and dimers and trimers of isoprene. The fact that the support alone had a small catalytic activity due to its Lewis acid sites and leading mainly to isobutylene is considered to show that the activity of the calcium phosphate catalyst depends on the presence of Brønsted acid sites. The catalyst is not appreciably affected by the usual impurities in DMD but is poisoned by sulfur (mercaptans). It can also be used for the production of other dienes, e.g. 2-phenylbutadiene, by analogous reactions. There are 5 figures.

ASSOCIATION: Khimicheskiy issledovatel'skiy institut, Bucharest
(Chemical Research Institute, Bucharest)

SUBMITTED: February 24, 1961

Card 2/2

GERSHKOVICH, Zh.[Herscovici, G.]; DUVALMA, M.; MEROYU, Ye.[Meroiu, E.];
SFINTESKU, K.[Sfintescu, C.]; KORLETYANU, Ye.[Corleteanu, E.];
VAYNBERG, M.; SMORZHEVSKAYA, M.

Preparation of isoprene from dimethyldioxane. Part 3:Acidity
and activity of a cracking catalyst. Zhur. ob. khim. 32 no.12:
3992-3997 D '62. (MIRA 16:1)

1. Khimicheskiy issledovatel'skiy institut, Bukharest.

(Isoprene) (Dioxane) (Catalysts)

1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.

[illegible]

... dr. J. Krzywicki).

... (the name of the person who wrote the letter).

SMOSARSKI, W.

DECEASED

1963/4

METEOROLOGICAL

(1960)

KOROBCHANSKIY, V.I.; DUBROVSKAYA, D.P.; GOROKHOVA, Z.Ya.; SMOTKIN, Ya.N.

Removal of carbon disulfide from benzol by an alkaline solution:
of methanol. Koks i khim. no.12:36-38 '60. (MIRA 13:12)

1. Donetskii politekhnicheskii institut (for Korobchanskiy).
2. Makeyevskiy koksokhimicheskii zavod (for Smotkin).
(Benzene) (Carbon disulfide)

RAFALOVICH, S., inzhener-podpolkovnik; SMOTKIN, Z., inzhener-mayor;
GOVOROV, O., inzh.

Without complaints. Av. i kosm. 47 no.7:81-84 31 '65. (MIRA 18:6)